

CLAIMS

1. A thermoplastic resin composition (Y) comprising the following (A) to (C):

(A) 20 to 64.9 wt% ethylene copolymer comprising (A-1) an ethylene/ α -olefin copolymer consisting of ethylene and C3 to C10 α -olefin and (A-2) an ethylene polymer other than (A-1) in such a ratio that (A-1)/(A-2) is 20/80 to 100/0 by weight,

(B) 35 to 70 wt% metal hydroxide, and

(C) 0.1 to 30 wt% graft-modified ethylene polymer.

2. The thermoplastic resin composition (Y) according to claim 1, wherein the graft-modified ethylene polymer (C) is a graft-modified product of unsaturated carboxylic acid or a derivative thereof.

3. The thermoplastic resin composition (Y) according to claim 1, wherein the graft-modified ethylene polymer (C) is a graft-modified product of unsaturated carboxylic acid or a derivative thereof wherein the amount of the graft is 0.01 to 10 wt%, and the ethylene polymer before modification of the graft-modified ethylene polymer is an ethylene/ α -olefin copolymer consisting of ethylene and C3 to C10 α -olefin, and the ethylene polymer before modification has the following properties:

(i) the density (ASTM D1505, 23°C) is in the range of 857 to 890 kg/m³,

(ii) the melt flow rate (MFR₂) (ASTM D1238, loading 2.16 kg, 190°C) under a loading of 2.16 kg at 190°C is in the range

of 0.1 to 20 g/10 min., and

(iii) the index (Mw/Mn) of molecular-weight distribution evaluated by GPC is in the range of 1.5 to 3.5.

4. The thermoplastic resin composition (Y) according to any one of claims 1 to 3, wherein the ethylene/ α -olefin copolymer (A-1) has the following properties:

(i) the density (ASTM D1505, 23°C) is in the range of 855 to 910 kg/m³,

(ii) the melt flow rate (MFR₂) (ASTM D1238, loading 2.16 kg, 190°C) under a loading of 2.16 kg at 190°C is in the range of 0.1 to 100 g/10 min., and

(iii) the index (Mw/Mn) of molecular-weight distribution evaluated by GPC is in the range of 1.5 to 3.5.

5. A polymer composition (Z) comprising: relative to

(AA) 100 parts by weight of at least one polymer selected from a thermoplastic polymer (aa1) and a thermosetting polymer (aa2), in the ratio of

(BB) 50 to 250 parts by weight of a metal hydroxide,

(E) 0.1 to 40 parts by weight of a triazine ring containing compound, and

(F) 0.1 to 40 parts by weight of a polyhydric alcohol.

6. The polymer composition (Z) according to claim 5, wherein the thermoplastic polymer (aa1) is an ethylene polymer.

7. The polymer composition (Z) according to claim 5 or 6, wherein the weight ratio of the polyhydric alcohol (F) to the triazine ring containing compound (E) is in the range of the following relationship (1):

$$(F)/(E) \geq 1 \quad (1)$$

8. A molded product comprising the thermoplastic resin composition (Y) according to any one of claims 1 to 4 or the polymer composition (Z) according to any one of claim 5 to 7.

9. The molded product according to claim 8, which is an insulating material for electric wires.

10. The molded product according to claim 8, which is a sheath for electric wires.